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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/277,482	03/26/1999	DEAN A. KLEIN	MPATENT.052A	3615	
20995	7590 01/30/2004		EXAM	EXAMINER	
KNOBBE M	IARTENS OLSON & B	SONG, HOSUK			
2040 MAIN S FOURTEEN	· <del></del> -		ART UNIT	PAPER NUMBER	
	IRVINE, CA 92614		2135	15	
			DATE MAILED: 01/30/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/277,482	KLEJN, DEAN A.
Office Action Summary	Examin r	Art Unit
	Hosuk Song	2135
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the	correspondence addr ss
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute,  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed /s will be considered timely. t the mailing date of this communication. ED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 24 De	ecember 2003.	
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This a	action is non-final.	
3) Since this application is in condition for allowant closed in accordance with the practice under E	nce except for formal matters, pr ix parte Quayle, 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.
Disposition of Claims		
4a) Of the above claim(s) <u>3 and 18-22</u> is/are wit  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) <u>1,2 and 4-17</u> is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or		
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 3/26/19 is/are: a) access Applicant may not request that any objection to the conference of the specific and specific an	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex Priority under 35 U.S.C. §§ 119 and 120	ammer. Note the attached Office	e Action of form PTO-152.
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78.  a) The translation of the foreign language profits Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Applicative documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification of the certification of the specification application has been received to priority under 35 U.S.C. §§ 120	ion No  ed in this National Stage  ed.  e) (to a provisional application)  r in an Application Data Sheet.  ceived.  and/or 121 since a specific
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) Interview Summer	r (PTO-413) Paper No(s)
2) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	Patent Application (PTO-152)

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/22/2003 has been entered.

## **Objection**

2. Claim 4 is objected.

Claim 4: Claim 4 is depended on cancelled claim 3. For purpose of examination the examiner will assume claim 4 is depended on claim 1. Please make an appropriate correction.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1-6,9-10,16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regard as the invention.
- Claim 1: recites the limitation "said logic circuit" in line 11. There is insufficient antecedent basis for this limitation in the claim.
- Claim 4: recites the limitation "said logic circuit". There is insufficient antecedent basis for this limitation in the claim.

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Claim 5: recites the limitation "said logic circuit". There is insufficient antecedent basis for this limitation in the claim.

Claim 9: recites the limitation "said logic circuit". There is insufficient antecedent basis for this limitation in the claim.

Claim 16: recites the limitation "said logic circuit". There is insufficient antecedent basis for this limitation in the claim.

Claims 2,6,10,17 are rejected because of dependency.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2,4-17 are rejected under 35 U.S.C.103(a) as being unpatentable over Dumas et al.(US 6,199,163) in view of Pond et al.(US 4,864,616).

Claims 1,2,4,6: Dumas disclose a data storage device in (fig.,#14). Dumas disclose a bus-to-bus bridge configured to receive digital data from a host processor and to forward the digital data to digital data storage device in an encrypted form wherein bus-to bridge is configured to encrypt digital data and forward the digital data to the digital storage device without intervention of the host processor in (fig.2 and col.2,lines 22-42). Dumas disclose a configuration register in the bus-to-bus bridge is adapted to store information that is used by the bus-to-bus bridge to selectively enable and disable encryption depending on the target device that is used to receive the data that is transmitted via the bus-to-bus bridge in (col.3,lines 23-29 and fig.2). Dumas disclose a non-volatile memory location in or connected to logic circuit, which

stores an identification code in (col.2,lines 51-54). Dumas does not specifically disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code. Pond's patent disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code in (fig.1). Note that ID's such as machine ID,config ID,primary ID are used to generate various keys,which inputted to a key stream generator for generating key streams (col.5,lines 44-59;col.3,lines 19-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to derive a key at least in part from identification code as taught in Pond with key system disclosed in Dumas because it makes harder for hackers to create or generate key without knowing identification code. It adds extra layer of security against data intruders trying to defeat the system.

Claim 5: Dumas disclose logic circuit additionally comprises a circuit for selectively disabling logic circuit from encrypting digital data in (fig.6,7).

Claims 7,9-10: Dumas disclose a data storage device in (fig.,#14). Dumas disclose a bus-to-bus bridge configured to receive digital data from a host processor and to forward the digital data to digital data storage device in an encrypted form wherein bus-to bridge is configured to encrypt digital data and forward the digital data to the digital storage device without intervention of the host processor in (fig.2 and col.2,lines 22-42). Dumas does not specifically disclose a plurality of data storage media drives. Examiner takes Official notice that CD-ROM drive,DVD-ROM drive,floppy drive are well known features in the computing device such as PC. One of ordinary skill in the art would have been motivated to use plurality of media drives in order to process and store mass amount of data in order to minimize system slow down. Dumas disclose a configuration register in the bus-to-bus bridge is adapted to store information that is used by the bus-to-bus bridge to selectively enable and disable encryption

depending on the target device that is used to receive the data that is transmitted via the bus-tobus bridge in (col.3,lines 23-29 and fig.2). Dumas disclose a non-volatile memory location in or connected to logic circuit which stores an identification code in (col.2,lines 51-54). Dumas does not specifically disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code. Pond's patent disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code in (fig. 1). Note that ID's such as machine ID, config ID, primary ID are used to generate various keys, which inputted to a key stream generator for generating key streams (col.5,lines 44-59;col.3,lines 19-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to derive a key at least in part from identification code as taught in Pond with key system disclosed in Dumas because it makes harder for hackers to create or generate key without knowing identification code. It adds extra layer of security against data intruders trying to defeat the system.

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Claim 8: Dumas disclose hard disk drive in (fig.1,#14).

Claims 11,12: Dumas disclose a data storage device in (fig.,#14). Dumas disclose a bus-to-bus bridge configured to receive digital data from a host processor and to forward the digital data to digital data storage device in an encrypted form wherein bus-to bridge is configured to encrypt digital data and forward the digital data to the digital storage device without intervention of the host processor in (fig.2 and col.2, lines 22-42). Dumas disclose a configuration register in the bus-to-bus bridge is adapted to store information that is used by the bus-to-bus bridge to selectively enable and disable encryption depending on the target device that is used to receive the data that is transmitted via the bus-to-bus bridge in (col.3,lines 23-29 and fig.2). Dumas disclose a non-volatile memory location in or connected to logic circuit which stores an identification code in (col.2,lines 51-54). Dumas does not specifically disclose a key

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accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code. Pond's patent disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code in (fig.1). Note that ID's such as machine ID,config ID,primary ID are used to generate various keys,which inputted to a key stream generator for generating key streams (col.5,lines 44-59;col.3,lines 19-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to derive a key at least in part from identification code as taught in Pond with key system disclosed in Dumas because it makes harder for hackers to create or generate key without knowing identification code. It adds extra layer of security against data intruders trying to defeat the system.

Claims 13-15: Dumas disclose a data storage device in (fig.,#14). Dumas disclose a bus-to-bus bridge configured to receive digital data from a host processor and to forward the digital data to digital data storage device in an encrypted form wherein bus-to bridge is configured to encrypt digital data and forward the digital data to the digital storage device without intervention of the host processor in (fig.2 and col.2,lines 22-42). Dumas disclose a configuration register in the bus-to-bus bridge is adapted to store information that is used by the bus-to-bus bridge to selectively enable and disable encryption depending on the target device that is used to receive the data that is transmitted via the bus-to-bus bridge in (col.3,lines 23-29 and fig.2). Dumas disclose a non-volatile memory location in or connected to logic circuit which stores an identification code in (col.2,lines 51-54). Dumas does not specifically disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part an encryption process, wherein the key is derived at least in part an encryption process, wherein the key is derived at least in part from identification code in (fig.1). Note that ID's such as machine ID,config ID,primary ID are

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used to generate various keys, which inputted to a key stream generator for generating key streams (col.5, lines 44-59; col.3, lines 19-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to derive a key at least in part from identification code as taught in Pond with key system disclosed in Dumas because it makes harder for hackers to create or generate key without knowing identification code. It adds extra layer of security against data intruders trying to defeat the system.

Claims 16-17: Dumas disclose a data storage device in (fig.,#14). Dumas disclose a bus-to-bus bridge configured to receive digital data from a host processor and to forward the digital data to digital data storage device in an encrypted form wherein bus-to bridge is configured to encrypt digital data and forward the digital data to the digital storage device without intervention of the host processor in (fig.2 and col.2, lines 22-42). Dumas disclose a configuration register in the bus-to-bus bridge is adapted to store information that is used by the bus-to-bus bridge to selectively enable and disable encryption depending on the target device that is used to receive the data that is transmitted via the bus-to-bus bridge in (col.3,lines 23-29 and fig.2). Dumas disclose a non-volatile memory location in or connected to logic circuit which stores an identification code in (col.2,lines 51-54). Dumas does not specifically disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code. Pond's patent disclose a key accessed by logic circuit to define at least in part an encryption process, wherein the key is derived at least in part from identification code in (fig.1). Note that ID's such as machine ID, config ID, primary ID are used to generate various keys, which inputted to a key stream generator for generating key streams (col.5,lines 44-59;col.3,lines 19-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to derive a key at least in part from identification code as taught in Pond with key system disclosed in Dumas because it makes harder for

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hackers to create or generate key without knowing identification code. It adds extra layer of security against data intruders trying to defeat the system.

#### Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 703-305-0042. The examiner can normally be reached on Tue-Fri from 5:30 am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 703-305-4393. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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